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FDD/X-2443

Changes in Striated Muscle After
Section of Nerve, Depending on
the Length of the Peripheral Segment,
by E. Gutmann, et al.
CZECH, per, Chekhoslovatskaia Fiziologiya,
Vol IV, No 2, 1955, pp 200-204.
RIN 11-22-64

Sci-BGM
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On the Mechanism of the Emission Process in Chemical
Emission, by Radko Seidl, 12 pp.

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~~RUSSIAN~~, par, Chekhoslovatskiy Fiz Zhur, Vol VI, No 5,
1956, pp 487-495.

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62-14421

Smirous, Karel, Stourac, Ladislav, and Bednar, Jan.
THE SEMICONDUCTING COMPOUND SiTe. [1962] 2p.
(1 fig. omitted) 5 refs.
Order from SLA \$1.10

62-14421

I. Smirous, K.
II. Stourac, L.
III. Bednar, J.

Trans. of [Chekhoslovatskii Fizicheskii Zhurnal] 1957,
v. 7 [no. 1] p. 120-122.

DESCRIPTORS: *Silicon compounds, *Tellurium com-
pounds, Electrical properties, *Semiconductors,
Tellurides.

Tellurium and silicon were weighed with great ac-
curacy into a quartz ampoule in the stoichiometric
proportions of SiTe; the ampoule was sealed after
evacuation at a pressure of 10^{-3} mm Hg. The two ele-
ments were kept in the ampoule for a duration of four
hours at 1200°C with frequent thorough mixing. The
resulting telluride had a metallic appearance; however
on cracking it showed a brown-red color. In moist air
(Physics--Solid State, TT, v. 8, no. 1) (over)

Office of Technical Services

R-4312-D

Power Balance During Layer Formation in an Electrical Discharge, by Ledek Pekarek, Oto Stirand.

~~Czech~~ ^{Russian}, per, Chekhosl Fiz Zhur, Vol VII, No 4, 1957, pp 364-374.

*JPRS/Air Force

Sci
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60-15997

Horak, J., Machovec, M., and Kosek, F.
ZINC TELLURIDE: A SEMICONDUCTING COM-
POUND. [1960] [17]p. (2 figs. omitted) 18 refs.
Order from OTS or SLA \$1.60 60-15997

I. Horak, J.
II. Machovec, M.
III. Kosek, F.

Trans. of [Chekhoslovatskii Fizicheskii Zhurnal] 1957,
v. 7, no. 4, p. 468-475.

DESCRIPTORS: *Zinc compounds, *Tellurides, *Semi-
conductors, Temperature, Conductivity, Intermetallic
compounds, Crystals, Lattices.

Zinc telluride was synthesized in quartz from very pure
samples of zinc and tellurium. The Debye-Scherrer
method was used to revise the tabulated values of the
lattice constant for which the value of 6.085 Å was
found by extrapolation of the back reflection method.
The conductivity of zinc telluride as a function of the
temperature was measured on evaporated thin films.
The structure of the films does not differ from the
(Physics--Solid State, TT, v. 8, no. 3) (over)

7-19-62

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R-4312-D

Low-Frequency Oscillations in a Glow Discharge.

~~Russian~~
~~English~~, per, Chekhosl Fiz Zhur, Vol VII, 1957,
pp 509-510.

*JPRS/Air Force

Sci
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59-14902

Fralt, Z.
ON THE QUESTION OF THE INHOMOGENEITY OF
DEMAGNETIZING FIELDS IN FERROMAGNETIC
RESONANCE. 17 Mar 59, 9p. 12 refs. LL-TF-13.
Order from OTS or SLA \$1.10 59-14902

Trans. of [Chekhoslovatskii Fizicheskii Zhurnal]
1958, v. 8, no. 1, p. 113-118.

DESCRIPTORS: Electromagnetic waves, Propagation,
*Ferrites, *Magnetic fields, *Resonance, Numerical
analysis.

A method is proposed for the quantitative computation
of the influence of inhomogeneities of the demagnetiz-
ing fields on the shape of the resonance curves. An
approximate computation is made for a definite ex-
perimental apparatus. Examples are presented when
the inhomogeneity of the demagnetization has a signifi-
cant influence on resonance curves of ferromagnets.

(Author)

(Physics--Magnetism, TT, v. 8, no. 5)

- I. Fralt, Z.
- II. LL-TF-13
- III. Lincoln Lab., Mass. Inst.
of Tech., Lexington

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61-14987

Feifer, Jaroslav.
THE MEASUREMENT OF ELASTIC TENSIONS IN
CERAMIC INSULATORS OF SINTERED CLAY BY
X-RAY DIFFRACTION. [1961] 3p. [4 refs. omitted].
Order from SLA \$1.10 61-14987

RUSSIAN
Trans. of [Chekhslovatskii Fizicheskii Zhurnal] 1958,
v. 8, no. 3 [p. 330-331] (abstract of original article
in Chekhslovatskii Fizicheskii Zhurnal, 1958, v. 8,
no. 3, p. 322-329).

DESCRIPTORS: *Ceramic materials, Electric insula-
tion, *Insulating materials, *Clays, X-ray diffraction
analysis, Stresses, Elasticity, Sinters.

See 61-14988

(Engineering--Electrical, TT, v. 6, no. 8)

1. Feifer, J.

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Felfer, Jaroslav.
RONTGENOGRAPHIC MEASUREMENT OF THE
ELASTIC STRESSES IN CERAMIC INSULATORS OF
SINTERED CORUNDUM. [1961] [14]p. 4 refs.
Order from SLA \$1.60 61-14988
RUSSIAN
Trans. of *Chekhovskiy Fizicheski Zhurnal*, 1958,
v. 8, no. 3, p. 322-329.

DESCRIPTORS: *Corundum, *Ceramic materials,
*Insulating materials, Electric insulation, Stresses,
Measurement, X-rays, Elasticity, Sintering.

Results are cited of the röntgenographic measurement
of the course of the elastic stresses in an insulator of
fused Al_2O_3 with the aid of the $K\alpha$ radiation of copper
and with the use of aluminum in the form of the corre-
sponding metal. The accuracy of determination of the
chief components of the stress was found by calculation
and the reproducibility of the measured values of the
stress was also studied. (Author)
(Engineering--Electrical, TT, v. 6, no. 5)

61-14988

I. Felfer, J.

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On the Photoelectroluminescence of ZnS-Cd, by
K. Pataki, 3 pp.

RUSSIAN

~~1958~~, per, Czechoslovakii Fizicheskii Zhurnal,
Vol VIII, # 1958, p 612.

SLA 60-14022

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OTS, Vol III, No 7

Nov 60

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TT-63-23540

Skrivanek, J. and Kuzmiak, M.
SENSIBILITE LOCALE DES PHOTOCATHODES DE
PHOTOMULTIPLICATEURS (Local Sensitivity of
Photocathodes and Photomultipliers) tr. by
S. Tarassenko. 6 June 61 [14]p. 1 ref. CEA Trans.
no. R 1367 (text in French).
Order from OTS, SLA, or ETC \$1.60 TT-63-23540

Trans. in French of [Chekhoslovatskii Fizicheskii
Zhurnal] 1959, v. 9, p. 112-117.

DESCRIPTORS: *Photomultipliers, Phototubes,
Electron tubes, Sensitivity,

(Physics--Electronics, TT, v. 11, no. 1)

- I. Skrivanek, J.
- II. Kuzmiak, M.
- III. CEA-tr-R1367
- IV. Commissariat à l'Energie
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